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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/940,045 08/27/2001 Stefan Marghuerite Jean Willems BE 000017 4484 **EXAMINER** 24737 06/18/2004 PHILIPS INTELLECTUAL PROPERTY & STANDARDS CHAU, COREY P P.O. BOX 3001 ART UNIT PAPER NUMBER BRIARCLIFF MANOR, NY 10510 2644 DATE MAILED: 06/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

, ,		
Office Action Summary	Application No.	Applicant(s)
	09/940,045	WILLEMS, STEFAN MARGHUERITE JEAN
	Examiner	Art Unit
	Corey P Chau	2644
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
 Responsive to communication(s) filed on <u>08/27/01</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 		
Disposition of Claims		
4) ☐ Claim(s) <u>1-7</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed.	vn from consideration.	
6)⊠ Claim(s) <u>1-7</u> is/are rejected. 7)□ Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	r election requirement.	
Application Papers		
9)☐ The specification is objected to by the Examiner. 10)☑ The drawing(s) filed on <u>08/27/01</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119	·	
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 		-(d) or (f).
2. Certified copies of the priority documents3. Copies of the certified copies of the prior	· ·	
application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of the certified copies not received.		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4.7.		atent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1, 6, and 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 1 recites the broad recitation "a region between 80 and 100 degrees", and the claim also recites "preferably between 85 and 95 degrees, more in particular at 90 degrees" which is the narrower statement of the range/limitation.

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4. Regarding Claims 6 and 7, it is unclear as to what "the signal" is referring to in the preceding claims.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 6. Claims 1, 2, and 3 are rejected under 35 U.S.C. 102(a) as being anticipated by U.S Patent No. 6091894 to Fujita et al. (hereafter at Fujita).
- 7. Regarding Claim 1, Fujita discloses virtual sound source positioning apparatus comprising a left front loudspeaker (8-L) which converts an electric signal of a left audio channel and with a right front loudspeaker (8-R) which converts an electric signal of a right audio channel, characterized in that a virtual filter (2) generates virtual sound

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bodies laterally of a listener in a region between 80 and 100 degrees. (Figs. 24A, 24B, and 25; column 24, line 22 to column 16, line 15).

- 8. Regarding Claim 2, Fujita discloses the virtual filter (2) comprises a sixth-order filter for the signals of each audio channel (Fig. 6).
- 9. Regarding Claim 3, Fujita discloses the virtual filter comprises a second sixthorder filter for signals, which are transported from one audio channel to the other (Fig. 6).
- 10. Claims 1, 4, 5, 6, and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6122382 to lida et al. (hereafter as lida).
- 11. Regarding Claim 1, Iida discloses a system for processing audio surround signal to generate sounds with a left front loudspeaker (5L) which converts an electric signal of a left audio channel and with a right front loudspeaker (5R) which converts an electric signal of a right audio channel, characterized in that a virtual filter (3) generates virtual sound bodies laterally of a listener in a region between 80 and 100 degrees (Fig 7).
- 12. Regarding Claim 4, lida discloses that a signal of a spatial rear channel is added to the signal of an audio channel (Fig. 2).
- 13. Regarding Claim 5, Iida discloses that the signal of the rear surround channel is conducted through a low-pass filter (Fig. 2).
- 14. Regarding Claim 6, Iida discloses that the signal is conducted through a delay circuit (Figs. 3 and 4).

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15. Regarding Claim 7, lida discloses that the signal is conducted through a reverberation circuit (Fig. 2).

Conclusion

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16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Corey P Chau whose telephone number is (703)305-0683. The examiner can normally be reached on Monday - Friday 9:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on (703)305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 14, 2004

FOŘESTER W. ISEN SUPERVISORY PATENT EXAMINER